

Date: Tue, 29 Mar 94 04:30:54 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #77
To: Ham-Homebrew

Ham-Homebrew Digest Tue, 29 Mar 94 Volume 94 : Issue 77

Today's Topics:

 Digital Frequency Synthesizer QST 4/84 & 2/85
 How to do PSK demodulation?
 How to receive FM subcarrier signals
 IC 2A

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 28 Mar 94 15:33:08 GMT
From: agate!howland.reston.ans.net!cs.utexas.edu!gerald@cc.utexas.edu!
calvin.ph.utexas.edu!bsn@ucbvax.berkeley.edu
Subject: Digital Frequency Synthesizer QST 4/84 & 2/85
To: ham-homebrew@ucsd.edu

There was a very interesting direct digital frequency synthesizer
described in QST for April 1984 and February 1985.

I would like to obtain a copy of the PROM listing for the synthesizer
unit. I am also interested in the assembly code for the controller but
that is not as necessary as the PROM listing.

The synthesizer used a TRW D/A converter, TDC106J-8 (TDC106B7C8 in the
processor controlled version). If anyone knows if this device still available
or if there is an equivalent that is, please let me know.

Tnx es 73,
Barry Newberger W5KH

Date: 28 Mar 1994 16:17:40 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
usenet.ins.cwru.edu!slc6!trier@network.ucsd.edu
Subject: How to do PSK demodulation?
To: ham-homebrew@ucsd.edu

What are the reasonable ways to do binary phase shift keying
demodulation for amateur radio? A pointer to a reference on it would
be fine. I've found lots of statements that it can be done, but
nothing detailed about how to do it.

Stephen

--
Stephen Trier KB8PWA "It don't mean a thing if it ain't got that
Other: trier@ins.cwru.edu certain je ne sais quois."
Home: sct@po.cwru.edu - Peter Schickele

Date: 28 Mar 94 22:50:23 GMT
From: agate!howland.reston.ans.net!gatech!prism!prism!not-for-
mail@ucbvax.berkeley.edu
Subject: How to receive FM subcarrier signals
To: ham-homebrew@ucsd.edu

What does one need for receiving FM subcarrier signals?

Any information or suggestions will be appreciated.

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Kevin Martin
Georgia Institute of Technology, Atlanta Georgia, 30332
uucp: ...!{decvax,hplabs,ncar,purdue,rutgers}!gatech!prism!kmartin
Internet: kmartin@prism.gatech.edu

Date: 28 Mar 94 14:04:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: IC 2A
To: ham-homebrew@ucsd.edu

Hi, Ed - I've got an IC 2AT - same radio, but with the touch-tone

pad option. If you'd like a copy of the owners manual and a schematic, I can put one together for you. The BEST way to power the rig externally from 12-14 vdc is an adaptor called the DC-1, I believe, which converts 12-14 vdc to about 9.6 VDC and runs the transmitter at about 1.5 to 2 watts. The maximum safe voltage for the unit appears to be about 10 volts - I think the BP-5 (a high-power drop-in charge power pack from ICOM) is maybe 10.8 volts. Twelve volts or higher applied directly to the battery input terminals will probably smoke the radio, so don't do it. If you can't find the stock DC adapter, you can build one from an old BP-2 or BP-3 battery pack by wiring in a simple voltage regulator circuit and a protective fuse. Make sure you get a 10V regulator - they're a little rarer than the usual 12 v ones.

One of my favorite replacement battery packs for the 2A is a Delcom pack available from TNR, W&W and other battery stores. This pack holds 8 standard AA NiCds and has the built-in charging circuitry similar to that in the ICOM's own BP-3 type batteries. You can keep a spare set of charged NiCds and snap them in when the first set runs down. The price with A set of AA's is around \$27. It's a little more fragile than an ICOM-built pack, but it lasts a long time on a charge. I hope this helps. Let me know if you need the manual and schematics. 73 de KD1DJ, Alan.

End of Ham-Homebrew Digest V94 #77
